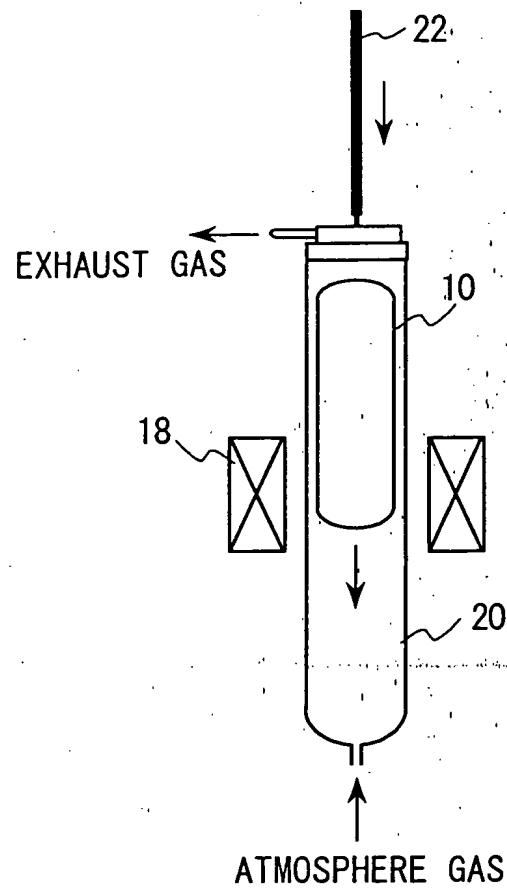


FIG. 1

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*FIG. 2*

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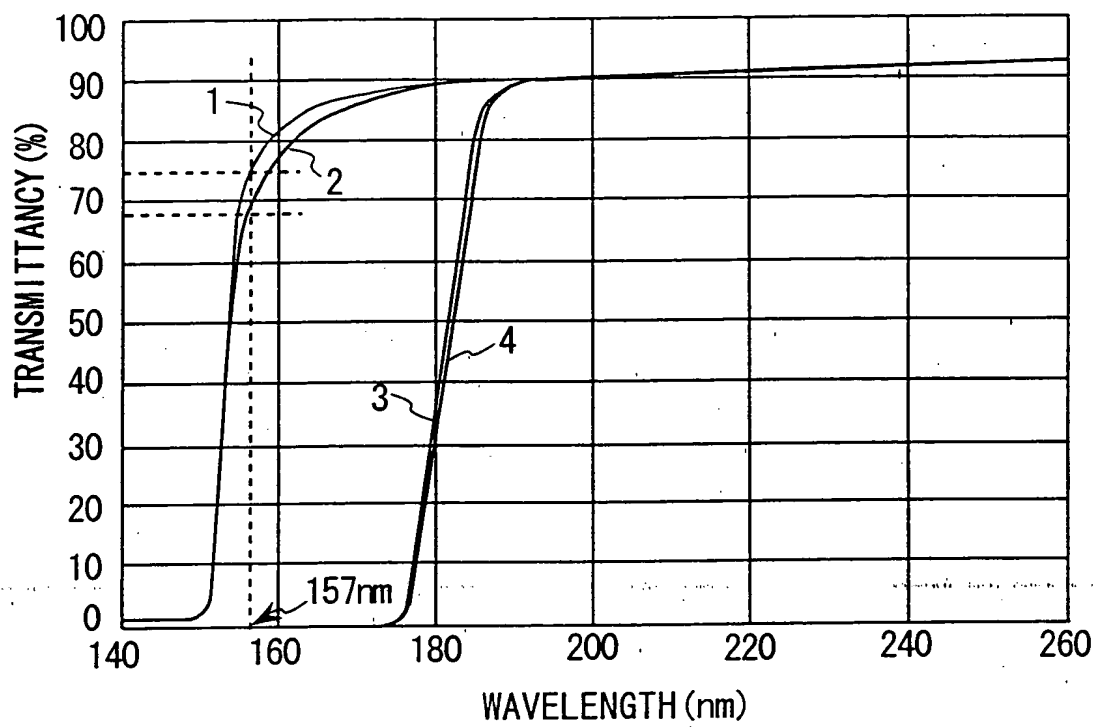


FIG. 3

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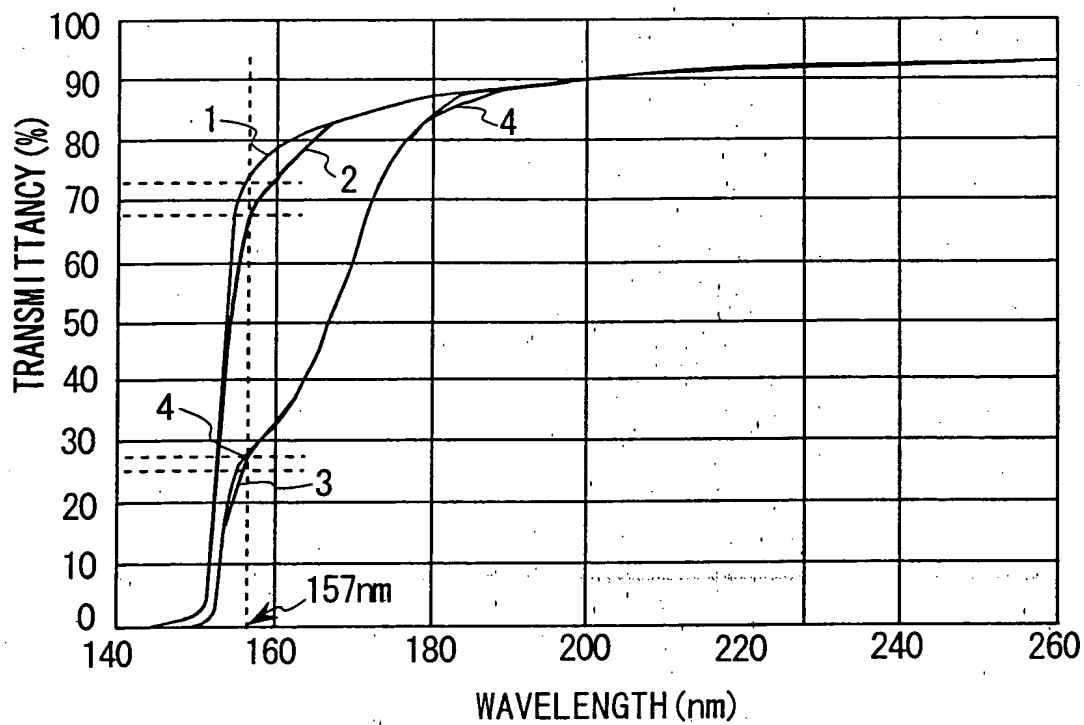


FIG. 4

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|                          | CONDITIONS                                 |  |   | REMARKS  |
|--------------------------|--|--|---|--|
|                          |  | FIRST PROCESS  | SECOND PROCESS  |  |
| EXAMPLE 1                | ATMOSPHERE<br>TEMPERATURE<br>PASSING SPEED | He 3 ℓ/min, H <sub>2</sub> 0.5 ℓ/min<br>1000°C<br>3mm/min  | SiF <sub>4</sub> 1.6 ℓ/min<br>1380°C<br>3mm/min                           | PRE-HEATING<br>PROCESS WITH H <sub>2</sub>                             |
| COMPARATIVE<br>EXAMPLE 1 | ATMOSPHERE<br>TEMPERATURE<br>PASSING SPEED | NONE   | SiF <sub>4</sub> 1.6 ℓ/min<br>1380°C<br>3mm/min                           | NO PRE-HEATING   |
| COMPARATIVE<br>EXAMPLE 2 | ATMOSPHERE<br>TEMPERATURE<br>PASSING SPEED | NONE   | SiF <sub>4</sub> 1.6 ℓ/min, H <sub>2</sub> 0.5 ℓ/min<br>1380°C<br>3mm/min | NO PRE-HEATING;<br>SINTERING WITH H <sub>2</sub>                       |
| COMPARATIVE<br>EXAMPLE 3 | ATMOSPHERE<br>TEMPERATURE<br>PASSING SPEED | He 3 ℓ/min, Cl <sub>2</sub> 0.3 ℓ/min<br>1000°C<br>3mm/min | SiF <sub>4</sub> 1.6 ℓ/min, H <sub>2</sub> 0.5 ℓ/min<br>1380°C<br>3mm/min | DEHYDRATION<br>WITH Cl <sub>2</sub> ;<br>SINTERING WITH H <sub>2</sub> |

FIG. 5

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|                          | CONDITIONS                                 |  |   | REMARKS  |
|--------------------------|--|--|---|--|
|                          |  | FIRST PROCESS  | SECOND PROCESS  |  |
| EXAMPLE 2                | ATMOSPHERE<br>TEMPERATURE<br>PASSING SPEED | He 3 l/min, O <sub>2</sub> 1 l/min<br>1000°C<br>3mm/min    | SiF <sub>4</sub> 1.6 l/min<br>1380°C<br>3mm/min                         | PRE-HEATING<br>PROCESS WITH O <sub>2</sub>                             |
| COMPARATIVE<br>EXAMPLE 4 | ATMOSPHERE<br>TEMPERATURE<br>PASSING SPEED | NONE   | SiF <sub>4</sub> 1.6 l/min<br>1380°C<br>3mm/min                         | NO PRE-HEATING   |
| COMPARATIVE<br>EXAMPLE 5 | ATMOSPHERE<br>TEMPERATURE<br>PASSING SPEED | NONE   | SiF <sub>4</sub> 1.6 l/min, O <sub>2</sub> 1 l/min<br>1380°C<br>3mm/min | NO PRE-HEATING;<br>SINTERING WITH O <sub>2</sub>                       |
| COMPARATIVE<br>EXAMPLE 6 | ATMOSPHERE<br>TEMPERATURE<br>PASSING SPEED | He 3 l/min, Cl <sub>2</sub> 0.3 l/min<br>1000°C<br>3mm/min | SiF <sub>4</sub> 1.6 l/min, O <sub>2</sub> 1 l/min<br>1380°C<br>3mm/min | DEHYDRATION<br>WITH Cl <sub>2</sub> ;<br>SINTERING WITH O <sub>2</sub> |

FIG. 6

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